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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A line start reluctance synchronous motor comprising:

a single phase stator arranged at an inner circumferential surface of a motor body and on

which a main coil and a sub coil are wound;

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a magnet unit free-rotatably arranged along an inner circumferential surface of the stator

in order to maintain an air gap with the stator; and

a cage rotor provided with a rotation shaft at a center portion thereof to be rotatable

along an inner circumferential surface of the magnet unit, provided with a cage bar at a

peripheral portion thereof, and provided with magnetic barriers having the same pole numbers as

the magnet unit.

2. (Currently Amended)The line start reluctance synchronous motor of elaim lclaim

14, wherein the magnetic barriers are formed with a certain interval at an outer side surface of

the cage rotor.

3. (Original) The line start reluctance synchronous motor of claim 2, wherein a

salient is formed between the magnetic barriers.

4. (Currently Amended) The line start reluctance synchronous motor of claim 1 claim

14, wherein the magnetic barriers are formed with a certain interval at an inner side surface of

the cage rotor.

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5. (Original) The line start reluctance synchronous motor of claim 4, wherein the

magnetic barriers are formed as a circular arc shape.

6. (Original) The line start reluctance synchronous motor of claim 5, wherein the

magnetic barriers become larger towards a circumferential direction of the cage rotor.

7. (Currently Amended) A-The line start reluctance synchronous motor of claim

1comprising:

a single phase stator arranged at an inner circumferential surface of a motor body and on

which a main coil and a sub coil are wound;

a magnet unit free rotatably arranged along an inner circumferential surface of the stator

in order to maintain an air gap with the stator; and

a cage rotor provided with a rotation shaft at a center portion thereof to be rotatable

along an inner circumferential surface of the magnet unit, provided with wherein the cage rotor

includes:

a number of poles;

a plurality of cage bars at a peripheral portion thereof, and provided with;

a plurality of first magnetic barriers having the same pole numbers as the magnet unit

located at an outer circumferential surface of the cage rotor, the number of the first magnetic

barriers being equal to the number of poles of the cage rotor; and

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a plurality of second magnetic barriers located at an inner side surface thereofof the cage rotor, the number of the second magnetic barriers being equal to the number of poles of the

cage rotor.

8. (Currently Amended)The line start reluctance synchronous motor of claim 7,

wherein the second magnetic barriers are formed as a circular arc shape.

9. (Currently Amended) The line start reluctance synchronous motor of elaim 7claim

8, wherein the second magnetic barriers become larger towards a circumferential direction of the

cage rotor.

10. (New) The line start reluctance synchronous motor of claim 8, wherein the first

magnetic barriers are formed with as a V shape.

11. (New) The line start reluctance synchronous motor of claim 10, wherein a salient

is formed between the first magnetic barriers.

12. (New) The line start reluctance synchronous motor of claim 7, wherein the first

magnetic barriers are formed with as a V shape.

13. (New) The line start reluctance synchronous motor of claim 12, wherein a salient

is formed between the first magnetic barriers.

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14. (New) The line start reluctance synchronous motor of claim 1, wherein the cage rotor includes:

a number of poles;

a plurality of cage bars at a peripheral portion thereof; and

a plurality of magnetic barriers, the number of the magnetic barriers being equal to the number of poles of the cage rotor.